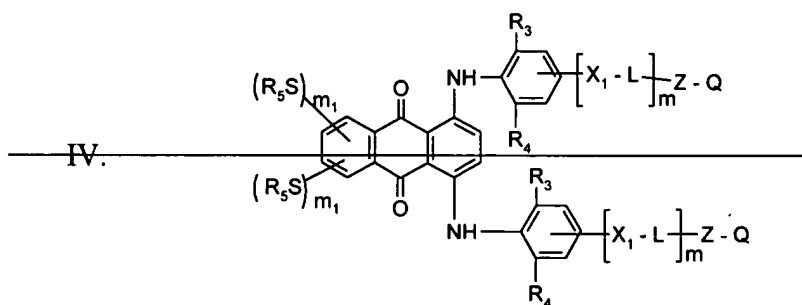
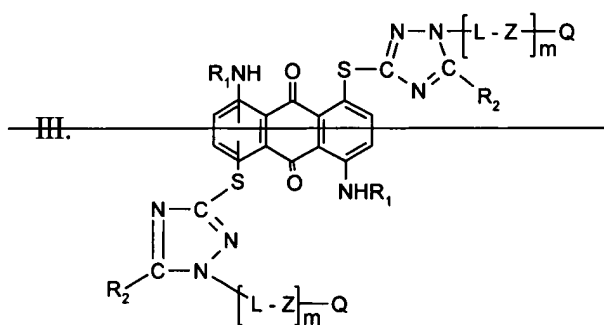
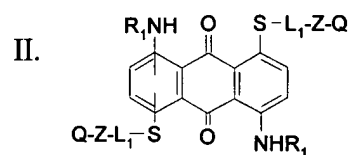
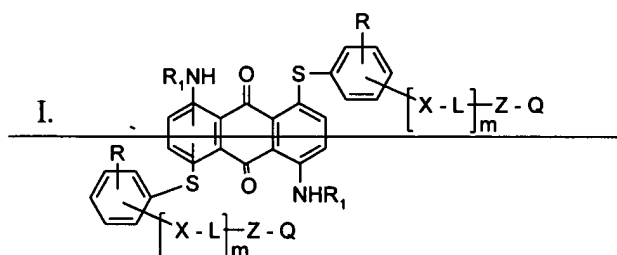
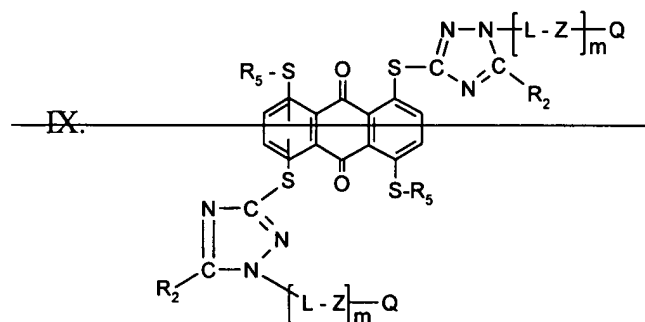
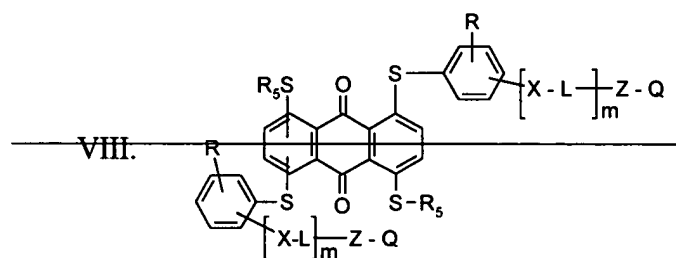
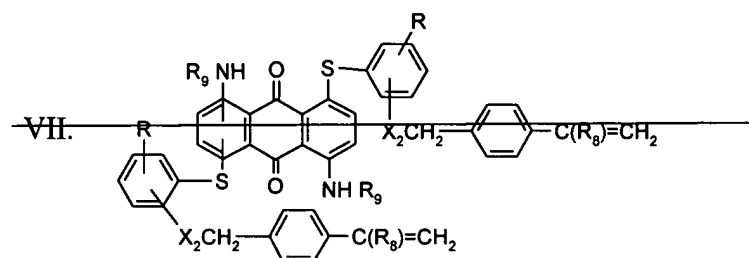
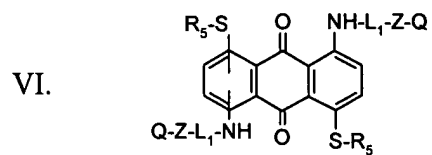
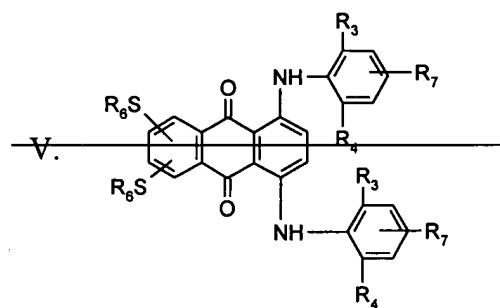
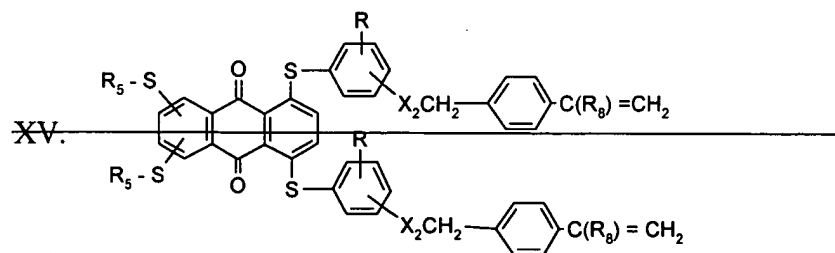
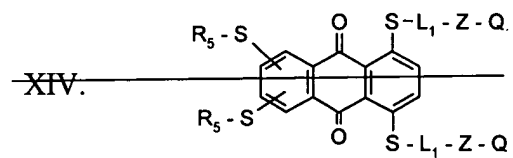
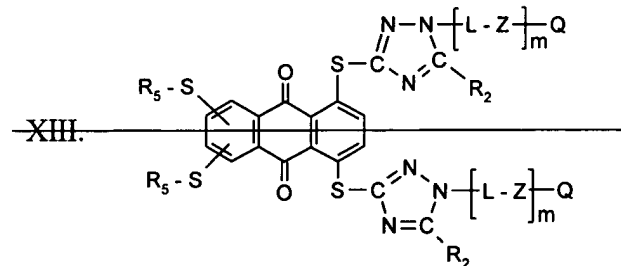
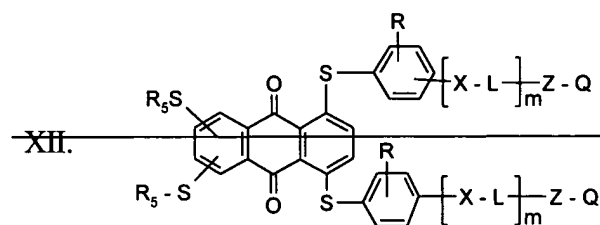
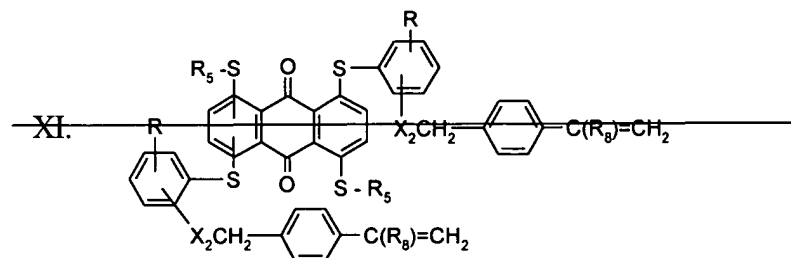
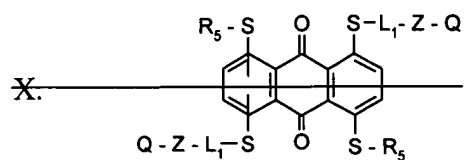


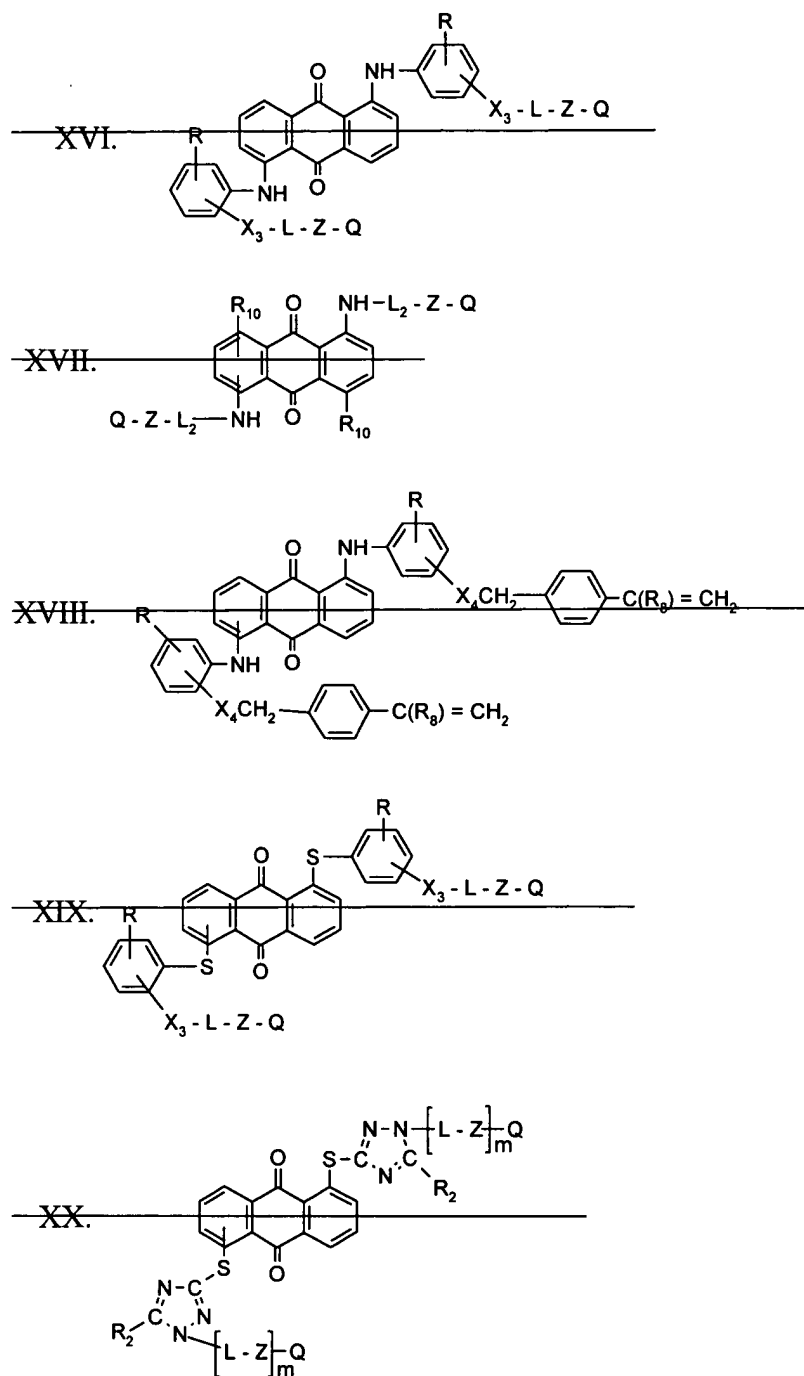
AMENDMENT

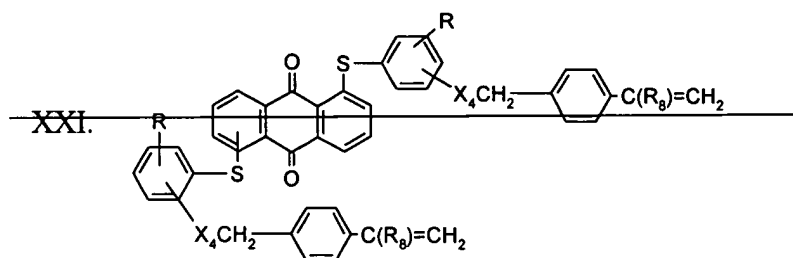
1. (Currently Amended) Anthraquinone dye compounds having ~~the formulae:~~ formula II. or formula VI.:











wherein:

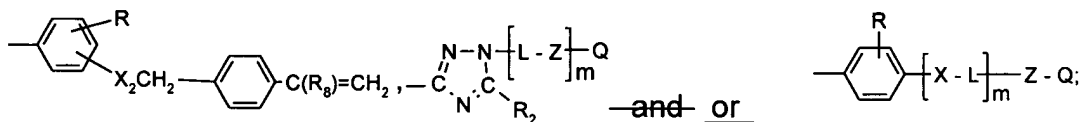
R is ~~selected from~~ hydrogen or 1-3 groups selected from C₁ - C₆-alkyl, C₁ - C₆-alkoxy and halogen;

R₁ is ~~selected from~~ C₁ - C₆-alkyl, substituted C₁ - C₆-alkyl, C₃ - C₈-alkenyl, C₃ - C₈-cycloalkyl, ~~aryl and aryl or~~ -L₁-Z-Q;

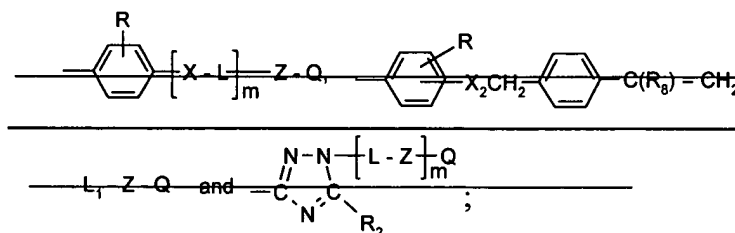
R₂ ~~=selected from hydrogen~~ is hydrogen, C₁ - C₆-alkyl, substituted C₁ - C₆-alkyl, C₃ - C₈-cycloalkyl ~~and aryl or aryl~~;

~~R₃ and R₄ are independently selected from C₄ - C₆-alkyl and bromine;~~

R₅ is ~~selected from~~ C₁ - C₆-alkyl, substituted C₁ - C₆ alkyl, C₃ - C₈-cycloalkyl, aryl, heteroaryl, -L₁-Z-Q,



~~R₆ is selected from~~



~~R₇ is selected from hydrogen, substituted or unsubstituted C₄ - C₆-alkyl, C₄ - C₆-alkoxy, halogen, hydroxy, substituted or unsubstituted C₄ - C₆-alkylthio, sulfamoyl and substituted sulfamoyl;~~

R₈ is ~~selected from hydrogen and~~ hydrogen or C₁ - C₆-alkyl;

~~R₉ is selected from the groups represented by R₁ and L-Z-Q;~~

~~R₁₀ is selected from hydrogen and halogen;~~

X is a covalent bond or a divalent linking group selected from -O-, -S-, -SO₂-, -CO₂-, -CON(Y)- and -SO₂N(Y)-, wherein Y is ~~selected from~~ hydrogen, C₁-C₆-alkyl, substituted C₁-C₆-alkyl, C₃-C₈-cycloalkyl, C₃-C₈-alkenyl, ~~aryl and~~ aryl or -L-Z-Q;

~~X₁ is selected from O, S, SO₂ and SO₂N(Y);~~

X₂ is selected from -CO₂- and -SO₂N(Y₁), wherein Y₁ is ~~a group selected from~~ hydrogen, C₁-C₆-alkyl, substituted C₁-C₆-alkyl, C₃-C₈-alkenyl, C₃-C₈-cycloalkyl, aryl, heteroaryl ~~and or~~ -CH₂-p-C₆H₄-C(R₈)=CH₂;

~~X₃ is selected from CO₂, SO₂N(Y);~~

~~X₄ is selected from CO₂, O and SO₂N(Y₁);~~

L is a divalent linking group selected from C₁-C₈-alkylene, C₁-C₆-alkylene-arylene, arylene, C₁-C₆-alkylene-arylene-C₁-C₆-alkylene, C₃-C₈-cycloalkylene, C₁-C₆-alkylene-C₃-C₈-cycloalkylene-C₁-C₆-alkylene, C₁-C₆-alkylene-Z₁-arylene-Z₁-C₁-C₆-alkylene and C₂-C₆-alkylene-[-Z₁-C₂-C₆-alkylene-]_n- wherein Z₁ is ~~selected from~~ -O-, -S- ~~and or~~ -SO₂- and n is 1-3;

L₁ is a divalent linking group selected from C₂-C₆-alkylene, C₁-C₆-alkylene-C₃-C₈-cycloalkylene-C₁-C₆-alkylene, C₁-C₆-alkylene-arylene, C₃-C₈-cycloalkylene, and C₂-C₆-alkylene-[-Z₁-C₂-C₆-alkylene-]_n-, wherein Z₁ is -O-, -S- or -SO₂- and n is 1-3;

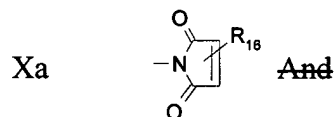
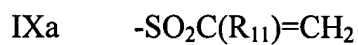
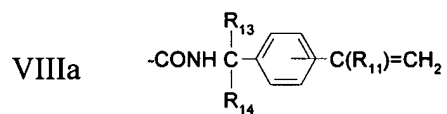
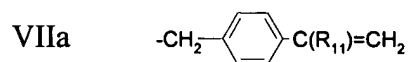
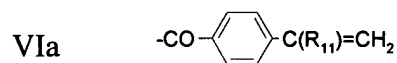
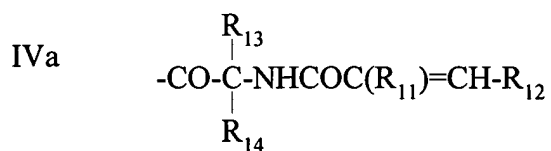
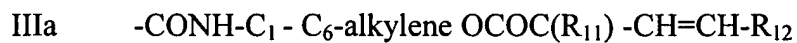
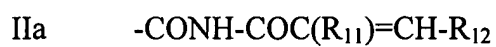
~~L₂ is selected from C₂-C₆-alkylene, C₁-C₆-alkylene-arylene-C₁-C₆-alkylene and C₁-C₆-alkylene-C₃-C₈-cycloalkylene-C₁-C₆-alkylene;~~

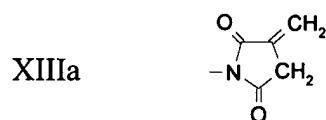
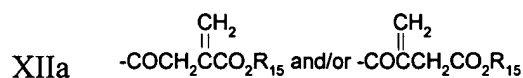
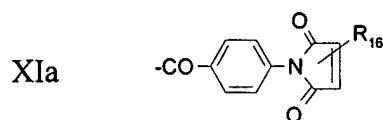
Z is a divalent group selected from -O-, -S-, -NH-, -N(C₁-C₆-alkyl)-, -N(C₃-C₈ alkenyl)-, -N(C₃-C₈ cycloalkyl)-, -N(aryl)-, -N(SO₂C₁-C₆-alkyl) and -N(SO₂ aryl)-, provided that when Q is a photopolymerizable optionally substituted maleimide radical, Z represents a covalent bond;

Q is an ethylenically-unsaturated, photosensitive polymerizable group; and

~~m and m₁ each is 0 or 1~~ m is 0 or 1.

2. (Currently amended) Anthraquinone compounds according to Claim 1 wherein the ethylenically-unsaturated, photosensitive copolymerizable groups represented by Q are selected from the following organic radicals:





wherein:

R₁₁ is ~~selected from hydrogen and~~ hydrogen or C₁-C₆-alkyl;

R₁₂ is ~~selected from~~ hydrogen; C₁-C₆-alkyl; phenyl ~~and or~~ phenyl substituted with one or more groups selected from C₁-C₆-alkyl, C₁-C₆-alkoxy, -N(C₁-C₆-alkyl), nitro, cyano, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkanoyloxy and halogen; ~~1- and 2-naphthyl~~ 1- or 2-naphthyl which may be substituted with C₁-C₆-alkyl or C₁-C₆-alkoxy; ~~2- and 3-thienyl~~ 2- or 3-thienyl which may be substituted with C₁-C₆-alkyl or halogen; or 2- or 3-furyl which may be substituted with C₁-C₆-alkyl;

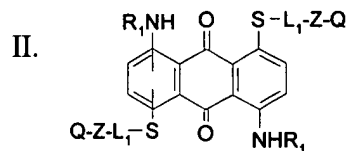
R₁₃ and R₁₄ are ~~selected from~~ hydrogen, C₁-C₆-alkyl, substituted C₁-C₆-alkyl, aryl or may be combined to represent a -[CH₂]₃₋₅- radical;

R₁₅ is ~~selected from~~ hydrogen, C₁-C₆-alkyl, substituted C₁-C₆-alkyl, C₃-C₈-alkenyl, C₃-C₈-cycloalkyl ~~and aryl~~ or aryl;

R₁₆ is ~~selected from~~ hydrogen, C₁ - C₆-alkyl ~~and aryl~~ or aryl.

3. (Canceled)

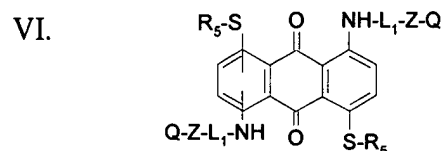
4. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

Claims 5 – 7 (Canceled)

8. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

Claims 9 – 18 (Canceled)

19. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia.

20. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia wherein R₁₁ is hydrogen or methyl and R₁₂ is hydrogen.

21. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa.

22. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa wherein R₁₁ is hydrogen.

23. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa.

24. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa wherein R_{11} is hydrogen or methyl and R_{13} and R_{14} are methyl.

Claims 25 and 26 (Canceled)

27. (Original) Anthraquinone compounds according to Claim 8 wherein L_1 is $-\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2-$ and R_5 is aryl.

Claims 28 - 46 (Canceled)

47. (Original) A coating composition comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 1, and (iii) a photoinitiator.

48. (Currently amended) A coating composition ~~according to Claim 47~~ comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 2 present in a concentration of about 0.05 to 15 weight percent based on the weight of component (i), and (iii) a photoinitiator present in a concentration of about 1 to 15 weight percent based on the weight of the polymerizable vinyl compound(s) present in the coating composition.

49. (Original) A coating composition according to Claim 48 wherein the polymerizable vinyl compounds comprise a solution of a polymeric, polymerizable vinyl compound selected from acrylated and methacrylated polyesters, acrylated and methacrylated polyethers, acrylated and methacrylated epoxy polymers, acrylated or methacrylated urethanes, and mixtures thereof, in a diluent selected from monomeric acrylate and methacrylate esters.

50. (Currently amended) A polymeric coating composition comprising a polymer of one or more acrylic acid esters, one or more methacrylic acid esters ~~and/or other or~~ other copolymerizable vinyl compounds, having copolymerized therein one or more of the dye compounds defined in Claim 1.

51. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an acrylic polymer of one or more acrylic acid esters, one or more methacrylic acid esters or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

52. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an unsaturated polyester containing one or more maleate/fumarate residues; one or more monomers which contain one or more vinyl ether groups, one or more vinyl ester groups, or a combination thereof, and, optionally, one or more acrylic or methacrylic acid esters; or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

53. (Currently amended) A polymeric coating according to Claim 51 containing from about 0.05 to 15.0 weight percent of the residue of one or more of the dye compounds ~~of Claim 2~~ based on the weight of the coating.